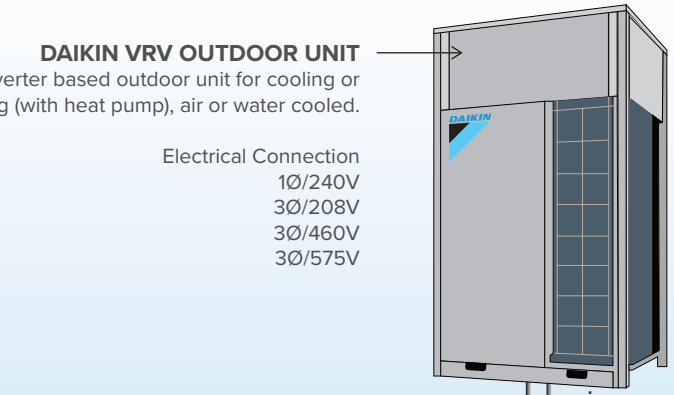
NOVA SERIES WITH DAIKIN VRV INTEGRATION

FOR INDOOR AND OUTDOOR APPLICATIONS

OXYGEN 8



DAIKIN VRV OUTDOOR UNIT
Inverter based outdoor unit for cooling or heating (with heat pump), air or water cooled.

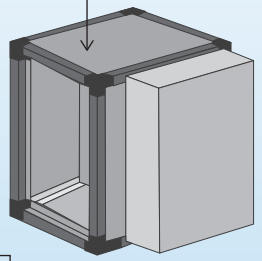
Electrical Connection
1Ø/240V
3Ø/208V
3Ø/460V
3Ø/575V

Suction Line
Liquid Line

NOVA CONTROLLER
Nova units include a factory-mounted and tested controller to integrate with Daikin's systems. The controller is BTL-Certified and has BACNet IP compatabilty.

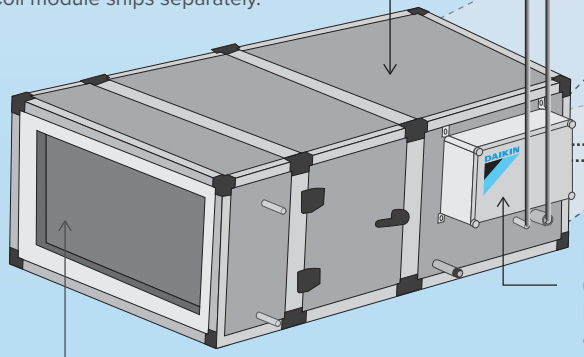
Electrical Connection
1Ø/240V
3Ø/208V
3Ø/460V

PRE-HEAT
Pre-heat can be water (glycol) or electric. Pre-heat only activates when the outdoor air temperature is below the setpoint. The pre-heater is not required when the OA is -5˚F and RA is 70˚F at 25% RH.



Electrical Connection
1Ø/240V
3Ø/208V
3Ø/460V
3Ø/575V

EKEXV (EXPANSION VALVE KIT) FACTORY BRAZED TO DX COIL
The Daikin-approved DX Coil is factory-mounted to decoupled coil section. The expansion valve kit (EKEXV) is factory brazed to the DX Coil. Coil section includes stainless steel double sloped drain pan. Coil module ships separately.



FILTERS
Standard OA MERV 13 Filter and RA MERV 8 Filter.

ENERGY RECOVERY
AHRI-1060 certified cross-flow enthalpy heat exchanger transfers heat and humidity. The core is made of polymer membrane with water-washability and has a mold and bacteria resistance rating of 0 under ISO-846. There is no virus cross-over: tested under ASTM F1671.
EATR < 0.5% tested to AHRI 1060.

FANS
Variable speed plenum ECM direct-driven fans for high-efficiency and low sound levels.

EKEQFCBAV3 (W-CONTROLLER)
Factory-mounted to a decoupled DX coil section, controller communicates with the Daikin VRV Outdoor Unit, EKEXV Expansion Valve Kit and Nova Controller.

Electrical Connection: 1Ø/230V

OPTIONAL REHEAT
Available in electrical and hydronic

AHRI CERTIFIED® www.ahridirectory.org
Air-to-Air ERV
AHRI Standard 1060
Energy Recovery COMPONENT is certified. Actual performance in packaged equipment may vary.

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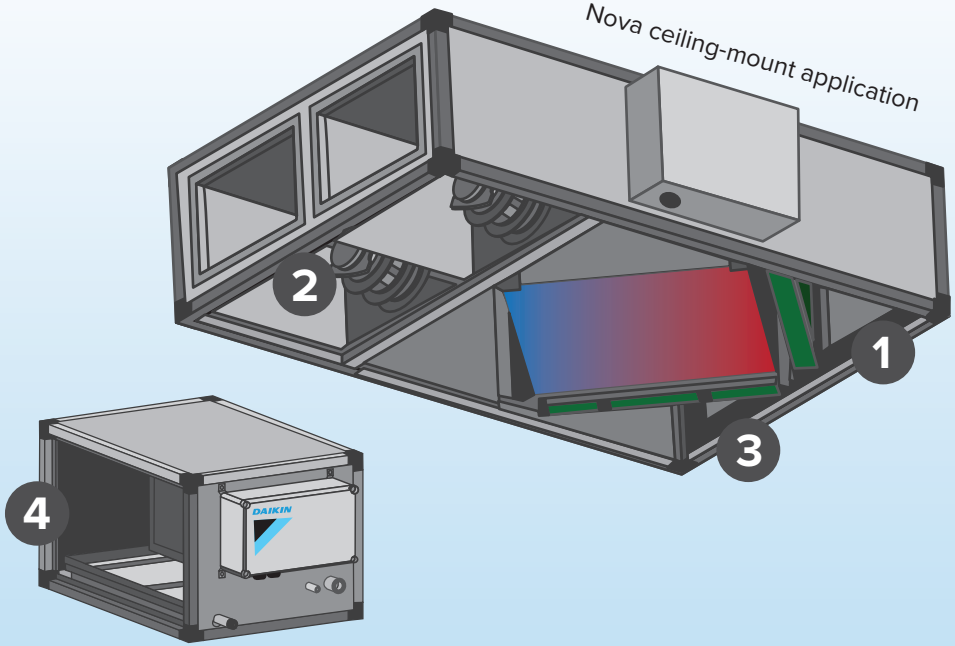
PERFORMANCE DATA

FOR INDOOR AND OUTDOOR APPLICATIONS

OXYGEN8

SUMMER AND WINTER CONDITIONS



1 Outdoor Air
95˚F DB, 78˚F WB

2 Post Energy Recovery Temperature
81.9˚F DB, 69.9˚F WB
Sensible Effectiveness: 65.28%
Latent Effectiveness: 50.91%
Total Effectiveness: 56.36%

3 Return Air
75˚F DB, 62.5˚F WB

4 Supply Air
55˚F DB, 54˚F WB

1 Outdoor Air
-5˚F DB, -5.2˚F WB

2 Post Energy Recovery Temperature
44˚F DB, 34.9˚F WB
Sensible Effectiveness: 65.28%
Latent Effectiveness: 50.91%
Total Effectiveness: 62.8%

3 Return Air
70˚F DB, 51˚F WB

4 Supply Air
70˚F DB, 50˚F WB

Nova Series Indoor Model Sizing and Airflow Ranges

Model	Rated Airflow (CFM)	ERV Dim. (W x L x H) in.	DX Coil Dim. (W x L x H) in.	DX + HGRH Coil Dim. (W x L x H) in.
A16	325 – 775	40 x 60 x 16	34 x 24 x 20	34 x 84 x 20
B20	550 – 1300	48 x 72 x 20	38 x 24 x 24	38 x 84 x 24
C20	1200 – 2200	60 x 84 x 20	50 x 24 x 26	50 x 84 x 26
C24	1550 – 2700	60 x 84 x 24	54 x 24 x 28	54 x 84 x 28
C30	2000 – 3500	60 x 84 x 30	60 x 24 x 30	60 x 84 x 30

Nova Series Indoor*/Outdoor Model Sizing and Airflow Ranges

Model	Rated Airflow (CFM)	ERV Dim. (W x L x H) in.	DX Coil Dim. (W x L x H) in.	DX + HGRH Coil Dim. (W x L x H) in.
A18	325 – 775	18 x 62 x 42	36 x 26 x 22	36 x 88 x 22
B22	550 – 1300	22 x 74 x 50	40 x 26 x 26	40 x 88 x 26
C22	1200 – 2200	22 x 86 x 62	52 x 26 x 28	52 x 88 x 28
C26	1550 – 2700	26 x 86 x 62	56 x 26 x 30	56 x 88 x 30
C32	2000 – 3500	32 x 86 x 62	62 x 26 x 32	62 x 88 x 32
C40*	3500 – 4400	62 x 86 x 40	64 x 26 x 34	64 x 88 x 34
C48*	4400 – 5400	62 x 86 x 48	66 x 26 x 38	66 x 88 x 38
C58*	5400 – 6600	62 x 86 x 58	70 x 26 x 42	70 x 88 x 42
C70*	6600 – 8100	62 x 86 x 70	76 x 26 x 46	76 x 88 x 46

Nova Units DX Coil Performance

Model	A16/18	B20/22	C20/22	C24/26	C30/32	C40	C48	C58	C70
EKEXV Size	2.5-Ton	4-Ton	6-Ton	8-Ton	12-Ton	16-Ton	24-Ton	24-Ton	24-Ton
Airflow (CFM)	775	1300	2200	2700	3500	4400	5400	6600	10000
Cooling Capacity @ 81/66 EAT									
Total (kBtu/h)	30.2	46.4	73.3	93.4	146.6	153.9	190.5	287	302.5
Sensible (kBtu/h)	22.1	34.1	53.9	69.3	105.4	113.5	136.6	203.2	218.9
LAT (DB/WB)	54.6 / 53.2	56.7 / 54.4	58.3 / 55.3	57.3 / 54.8	53.1 / 52.1	57.1 / 54.7	57.6 / 64.6	52.5 / 51.4	56 / 53.8
Heating Capacity @ 45 EAT									
Sensible (kBtu/h)	34.2	54.6	85.3	107.5	170.8	170.8	215.2	341.6	341.6
LAT (DB)	85.7	83.7	80.7	81.7	90	80.8	81.7	92.7	83.9

For selections contact **applications@oxygen8.ca**
or contact your local Oxygen8 Sales Representative

DAIKIN